

24. Write the vector in component form.

initial point (2,-1,3) terminal point (4,4,-7)

25. Find the magnitude of vector v if the initial point is (6,2,0) and the terminal point is (3,-3,8).

26. Find the midpoint of (2,3,5) and (-1,0,2).

27. Find the distance between (-1,2,-3) and

(4,5,-2).

28. Find the unit vector if the initial point is (7,2,1) and the terminal point is (6,0,1).

34. Find a set of parametric equations containing the points A(8,-2,5) and B(6,4,-1).

35. Is ABCD a parallelogram?

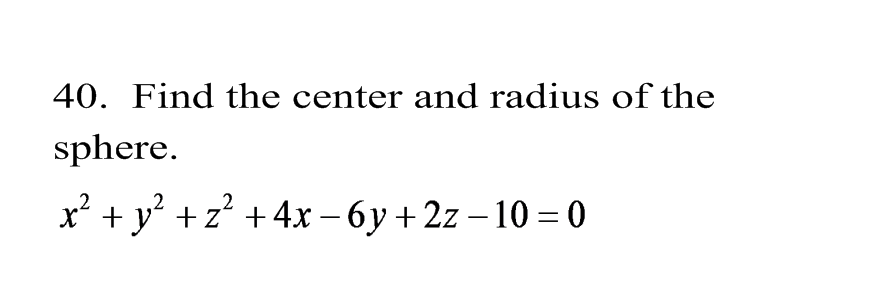
A(2,-3,1), B(6,5,1), C(3,-6,4) and D(7,2,2)

36. Is ABCD a rectangle?

37. Find the area of ABCD.

38. Find the equation of a plane that contains

A(-3,-4,2) B(-3,4-1) and C(1,1,-2).

39. Find the equation of a sphere with (2,3,5) and (4,-1,3) as endpoints of the diameter.